Oahu Civilian E9-1-1

Status Report

September 1, 2019 – September 30, 2019

September 1, 2019 - September 30, 2019

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1. PSAP OPERATIONS

9-1-1 CALL VOLUME CIVILIAN PSAPS - SEPTEMBER 2019

Source: Intrado Viper system

(*) Totals are based on calls to Primary PSAP.

	9-1-1 Primary PSAP Call Volume																
Honolulu City & Count PSAPs		Wireline		Wireless			VOIP		Calls With No ALI		Admin Calls		Abandoned Calls		Other Calls		
2019	Total 9-1-1 Calls Processed	No. of Wireline Calls	% of Total Calls	No. of Wireless Calls	% of Total Calls	% of Wireless WPH1 Calls	Wireless	No. of VoIP Calls	% of Total Calls	No. of Calls with No ALI	% of Total Calls	No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	No. of Other Calls	% of Total Calls
September	87,722	16,167	18.43%	68,371	77.94%	42.87%	35.07%	3,158	3.60%	26	0.03%	1,202	1.37%	15,590	17.77%	742	0.85%

9-1-1 CALL VOLUME CILILIAN PSAPS - CALENDAR YEAR 2019

	9-1-1 Primary PSAP Call Volume																	
Honolul	u City & County PSAPs	Wireline			Wire	eless		VOIP		Calls v	LI	Admir	n Calls		Abandoned Calls		Other Calls	
2019	Total 9-1-1 Calls Processed	No. of Wireline Calls	% of Total Calls	No. of Wireless Calls	% of Total Calls	% of Wireless WPH1 Calls	% of Wireless WPH2 Calls	No. of VoIP Calls	% of Total Calls	No. of Calls with No ALI	% of Total Calls	No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	No. of Total Call Received	% of Total Calls	
JAN	88,651	17,145	19.34%	68,155	76.88%	43.80%	33.08%	3,333	3.76%	18	0.02%	1,427	1.61%	15,027	16.95%	746	0.84%	
FEB	81,871	16,620	20.30%	62,099	75.85%	43.70%	32.15%	3,127	3.82%	25	0.03%	754	0.92%	13,784	16.84%	697	0.85%	
MAR	88,137	15,267	19.43%	67,804	76.93%	43.76%	33.17%	3,182	3.61%	26	0.03%	1,135	1.29%	13,461	15.27%	693	0.79%	
APR	88,811	16,785	18.90%	68,855	77.53%	43.71%	33.82%	3,144	3.54%	27	0.03%	1,220	1.37%	14,154	15.94%	699	0.79%	
MAY	96,789	18,050	18.77%	75,186	77.68%	44.07%	33.61%	3,417	3.53%	19	0.02%	980	1.01%	20,432	21.11%	574	0.59%	
JUNE	86,913	16,600	19.10%	67,132	77.24%	42.54%	34.70%	3,164	3.64%	17	0.02%	1,179	1.36%	14,520	16.71%	624	0.72%	
JULY	89,089	16,303	18.30%	69,543	78.06%	42.86%	35.20%	3,225	3.62%	18	0.02%	1,300	1.46%	14,085	15.81%	705	0.79%	
AUG	92,120	17,060	18.52%	71,946	78.10%	43.29%	34.81%	3,086	3.35%	28	0.03%	971	1.05%	16,255	17.65%	679	0.74%	
SEPT	87,722	16,167	18.43%	68,371	77.94%	42.87%	35.07%	3,158	3.60%	26	0.03%	1,202	1.37%	15,590	17.77%	742	0.85%	
ОСТ																		
NOV																		
DEC																		
YTD	800,103	149,997		619,091				28,836		204		10,168		137,308		6,159		
MON AVG	88,900	16,666	19.01%	68,788	77.36%	43.40%	33.96%	3,204	3.61%	23	0.03%	1,130	1.27%	15,256	17.12%	684	0.77%	

NOTE:

- 911 Calls with No ALI for September 2019 = 0.03% Statewide average for 2018 = 0.09%
- Total call volumes does not include Administrative Calls. Administrative calls = Calls originating on Administrative lines that required 911 service.
- Abandoned Calls represent the number of incoming 9-1-1 calls for which the caller had hung up before a call-taker answered. Dropped Calls are hang ups after transfers.
- Abandoned Calls are not included in the Wireline and Wireless total counts respectively.
- All VoIP (Voice over Internet Protocol) types of 911 calls are combined in the Call Volume statistic.



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9-1-1 CALL VOLUME BY AGENCY - SEPTEMBER 2019

		9-1-1 Call Volume by Agency													
2019		Hor	olulu Poli	ce Departn	nent		Honolulu Fire Department								
2013	No. of Total Calls Received	% of Total Calls	Number of Emergency Calls		Number of Admin Calls	Number of Dropped Calls	No. of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Dropped Calls					
September	76,455	87.16%	19,595	40,196	1,074	15,590	2,850	3.25%	99	47					

		9-1-1 Call Volume by Agency													
2019	Er	nergency M	edical Servic	es	Ocean Safety										
	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Dropped Calls	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Dropped Calls							
September	7,659	8.73%	13	76	16	0.02%	16	0							

9-1-1 CALL VOLUME BY AGENCY - CALENDAR YEAR 2019

		9-1-1 Call Volume by Agency																
2019		Honol	ulu Polic	e Depar	tment		Honol	ulu Fire	Depart	ment	En	nergenc Serv	•	cal		Ocean	Safety	
	Number of Total Calls Received	% of Total Calls	No. of Emergency Calls	No. of Non Emergency Calls	No. of Admin Calls	No. of Dropped Calls	No. of Total Calls Received	% of Total Calls	No. of Admin Calls	No. of Dropped Calls	No. of Total Calls Received	% of Total Calls	No. of Admin Calls	No. of Dropped Calls	No. of Total Calls Received	% of Total Calls	No. of Admin Calls	No. of Dropped Calls
JAN	76,658	86.47%	19,605	40,890	1,136	15,027	2,885	3.25%	127	35	8,311	9.37%	114	84	51	0.06%	50	2
FEB	71,410	87.22%	19,014	37,981	631	13,784	2,521	3.08%	86	35	7,212	8.81%	7	130	31	0.04%	30	2
MAR	75,630	85.81%	20,604	40,625	940	13,461	2,896	3.29%	121	44	8,865	10.06%	21	114	53	0.06%	53	0
APR	76,613	86.27%	20,309	41,091	1,059	14,154	3,391	3.82%	108	97	8,065	9.08%	11	100	43	0.05%	42	0
MAY	84,829	87.64%	20,869	42,752	776	20,432	3,044	3.14%	141	45	8,287	8.56%	15	109	55	0.06%	48	0
JUNE	75,356	86.70%	19,881	39,964	991	14,520	3,123	3.59%	136	63	7,758	8.93%	4	106	52	0.06%	48	0
JULY	77,352	86.83%	21,033	41,176	1,058	14,085	3,029	3.40%	137	50	7,948	8.92%	51	95	55	0.06%	54	0
AUG	80,472	87.36%	20,922	42,483	812	16,255	3,045	3.31%	110	57	7,885	8.56%	10	81	39	0.04%	39	0
SEPT	76,455	87.16%	19,595	40,196	1,074	15,590	2,850	3.25%	99	47	7,659	8.73%	13	76	16	0.02%	16	0
ост																		
NOV																		
DEC																		
YTD	694,775		181,832	367,158	8,477	137,308	26,784		1,065	473	71,990		246	895	395		380	4
MON AVG	77,197	86.83%	20,204	40,795	942	15,256	2,976	3.35%	118	53	7,999	9.00%	27	99	44	0.05%	42	0

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PSAP OPERATION NOTES:

- Total call volumes does not include Administrative Calls. Administrative calls = Calls originating on Administrative lines that required 911 service.
- Abandoned Calls represent the number of incoming 9-1-1 calls for which the caller had hung up before a call-taker answered. Dropped Calls are hang ups after transfers.
- Abandoned Calls are included in the Wireline and Wireless total counts respectively.
- All VoIP (Voice over Internet Protocol) types of 911 calls are combined in the Call Volume statistic.

FOR YOUR INFORMATION

	FYIFor Your Information														
	PSAP Operations														
	911 Call Volumes														
PSAP 2018 2017 2016 2015															
Oahu Civilian	1,034,193	72.46%	1,022,818	73.60%	1,009,059	71.93%	1,019,402	70.94%							
Hawaii County	206,648	14.48%	193,166	13.90%	205,412	14.64%	217,768	15.15%							
Maui County	133,869	9.38%	123,685	8.90%	137,333	9.80%	142,952	9.95%							
Kauai County	Kauai County 52,623 3.68% 49,902 3.60% 50,955 3.63% 56,874 3.96%														
Total	Total 1,427,333 100.00% 1,389,571 100.00% 1,402,759 100.00% 1,436,996 100.00%														

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TEXT TO 911 OAHU CIVILIAN PSAPS - CURRENT MONTH - SEPTEMBER 2019

NOTE:

• Although there is a "Text to 911" plot on the MapFlex, the location of the plot is not reliable. Text to 911 Dispatchers should use their skills to ascertain the exact location of the emergency response.

	TEXT TO 911 Oahu Civilian PSAPs 2019													
Month	Total	HPD	HFD	EMS	os	911 (handled)								
January	153	131	1	4	0	17								
February	106	92	0	2	0	12								
March	115	95	1	2	0	17								
April	92	85	1	3	0	3								
May	130	112	2	1	0	15								
June	150	133	2	3	0	12								
July	142	128	2	3	0	9								
August	151	134	0	2	0	15								
September	172	139	1	1	0	31								
October														
November														
December														
YTD	1,211	1,049	10	21	0	131								
Monthly Avg.	134.6	116.6	1.1	2.3	0.0	14.6								

NOTE:

The 9-1-1 handled texts were incidents in which the Division conducted testing or the texter texted 911 in error.

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911 WIRELESS OAHU CIVILIAN PSAP TESTING - SEPTEMBER 2019

	OAHU CIVILIAN - SEPTEMBER 2019														
Date	WSP	Sites Tested	Sectors Tested	Tested By:	Test Pass/Fail	Comments:									
9/4/2019	Sprint	1	1	Oahu PSAP	Fail	no show									
9/4/2019	Sprint	1	1	Oahu PSAP	Pass										
9/13/2019	Sprint	1	1	Oahu PSAP	Pass										
9/13/2019	Sprint	0	0		Fail	Tower not ready/reschedule									
9/26/2019	Sprint	8	8	Oahu PSAP	Pass/Fail	4 sectors pass/4 sectors fail									
9/30/2019	Sprint	1	1	Oahu PSAP	Pass	rescheduled test from 9/13									
9/30/2019	Verizon	1	1	Oahu PSAP	Pass										

NOTES:

- There were seven (7) scheduled Wireless 911 Test for the Oahu Civilian PSAP in September 2019.
- Verizon Wireless has completed migrating their Wireless network database from Intrado to ComTech.
- During the 4th quarter of 2018, there was an increasing amount of "MOBL" class of service type of 911 calls delivered to the State of Hawaii PSAPs. On January 15th, 2019, Intrado completed the position source mapping for ComTech which appears to have resolved this issue.

Oahu Civilian



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2. MSAG (MASTER STREET ADDRESS GUIDE)

OAHU CIVILIAN MSAG TRANSACTIONS CURRENT MONTH/YEAR - SEPTEMBER 2019

OAHU				9-1-1	TRANSA	CTIONS	•		
CIVILIAN		MSAG	A	LI Submitte	ed	Discre	Customer		
2019	Total	MSAG (A)	TN CR (B)	ALI DR (C)	VoIP (D)	TNCR	ALI DR	VoIP DR	Addresses Affected
JANUARY	178	24	154	0	0	403	0	0	683
FEBRUARY	177	1	176	0	0	123	0	0	176
MARCH	39	23	16	0	0	339	0	0	26
APRIL	217	20	197	0	0	355	0	0	2,344
MAY	217	18	199	0	0	767	0	0	3,634
JUNE	477	13	464	0	0	539	0	0	3,582
JULY	278	9	269	0	0	538	0	0	824
AUGUST	280	8	271	0	1	344	0	0	1,337
SEPTEMBER	222	13	208	1	0	274	0	0	1,529
OCTOBER									_
NOVEMBER									
DECEMBER									
TOTAL YTD	2,085	129	1,954	1	1				14,135
AVG PER MONTH	232	14	217	0	0				1,571

Definitions

(A) Master Street Address Guide - Represents corrections made to street records including, street names, address ranges, MSAG Communities and ESNs.

- (B) **T**elephone **N**umber **C**hange **R**equest Represents address corrections on a specific TN or group of TNs. These "invalid" TNs usually have an associated ESN 199 attached to them which indicates the need for validation.
- (C) **A**utomatic **L**ocation **I**nformation **D**iscrepancy **R**ecord Represents an address discrepancy discovered during a live 9-1-1 call, from a landline. These record corrections are treated with a higher priority and should be processed within 48 hours as a general guideline.
- (D) **V**oice **o**ver **I**nternet **P**rotocol **D**iscrepancy **R**ecord Represents an address discrepancy discovered during a live 9-1-1 call, from a VoIP phone. These record corrections are treated with a higher priority and should be processed within 72 hours as a general guideline per Time Warner Operations Center. MSR tracking effective April 2014.



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OAHU CIVILIAN MSAG CURRENT MONTH NOTES:

A total of 222 MSAG transactions were processed in 9-1-1 Net during the current reporting month. Thirteen (13) requests were processed relating to the MSAG database which include: changes to high – low street ranges, combining street records, deletion of invalid records, splitting street records to align with Police, Fire, EMS and Military response areas, and inserting new MSAG records.

There were 1,529 customer ANI/ALI (telephone/address) records updated as a direct result.

OAHU CIVILIAN TELEPHONE RECORD (ALI) TRANSACTIONS CURRENT MONTH NOTES:

One (1) ALI DR was submitted as the result of 9-1-1 call from a resident in Hawaii Kai.

Akimeka processed two hundred eight (208) TN CRs related to the Dispatchable Location Project during the current month.

OAHU CIVILIAN OPEN TELEPHONE RECORD (ALI) DISCREPANCY STATUS:

• There are currently 274 Open TN CRs.

274 Open TN CR transactions are a result of the Dispatchable Location project. Akimeka continues to monitor and track the progress of the Referred records. Once a telephone number is submitted to West for correction, it must be verified against HT records and/or approved by the customer. West's internal process requires calling each telephone customer individually for approval to update an address in the 9-1-1 database.

- Refer to chart in the next section "TNCR Current Status"
- There are no Open ALI-DRs as of September 30, 2019
- There is no Open VoIP DRs as of September 30, 2019

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TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS - SEPTEMBER, 2019

NOTE:

- 9-1-1 NET is a secure web-based application that provides access to request changes to the MSAG, ALI, TN, and ESN/ELT data supported and maintained by Intrado for the Telephone Company (TelCo).
- TNCRs are not requests to change Telephone Numbers (TNs); however, it is a corrective process within 9-1-1 NET to modify location information associated with an Automatic Location Identification (ALI) record to a valid MSAG address for 9-1-1 purposes.

	PSAP 9-1-1 Telephone Number Location Change Request				
	(Telephone Number Change Request (TNCR) Status)				
PSAP	TOTAL TNCR RECORDS SUBMITTED BY AKIMEKA OPENED TNCRS PENDING FURTHER ACTION BY INTRADO OPENED TNCRS REFERRED TO TELCO BY INTRADO TOTAL UNOPENED TNCR RECORD				
OAHU CIVILIAN	274	1	192	81	

STATUS

TOTAL TNCRs SUBMITTED - The total number of TNCR requests for modification that have been submitted in 9-1-1 **PENDING STATUS** - TNCRs assigned this status are requests which have been reviewed by the 9-1-1 Database Service Provider Data Analyst, and are pending investigation whether the request is valid or invalid, and/or whether the request requires additional information to validate.

REFERRED STATUS - TNCRs assigned this status are requests which have been reviewed by the 9-1-1 Database Service Provider Data Analyst, and the request requires additional information to validate. The Intrado Data Analysts assigns this status to a TNCR and the request is referred to the telephone service providers for further research.

<u>TOTAL UNOPENED TNCR RECORDS STATUS</u> - The request is submitted by Akimeka on behalf the PSAP; however, processing by the 9-1-1 Database Service Provider Data Analyst has not begun.



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DISPATCHABLE LOCATION - STATUS AS OF - SEPTEMBER 2019

NARRATIVE:

Oahu Civilian

During the August 2015 State of Hawaii 911 Board meeting, Akimeka provided a "State of Hawaii PSAPs Proposed ALI Compliancy with FCC 15-9" presentation. Based on the 9-1-1 Board's confirmation to add the "Dispatchable Location" information into the ALI database, Akimeka researched the format standards of each pertinent field, and tested the delivery of the data to the PSAP. After a few configuration adjustments (eliminating the TelCo comments field from appearing on the ALI Screen), Akimeka standardized an additional information data format to proceed with this project.

The "Dispatchable Location" data is entered into the "Driving Directions" field in the 9-1-1 Net system, and will display on the Viper Power 911 ALI Screen in the "Exact" field should a 911 call be received from that telephone number. The Windward Mall will be the pilot location starting in March 2018.

There were 169 transactions submitted and 208 processed in September 2019.

Dispatchable Location					
2019 Quarter 3	Common Name Place MSAG Address TNCR* Transactions Submitted				
Quarter 2 Carryover		4,093	2,933		
July	Market City Shopping Center, 2919 Kapiolani Blvd, Kapahulu Royal Hawaiian Shopping Center, 2301 Kalakaua Ave, Waikiki Waikiki Businness Plaza, 2270 Kalakaua Ave, Waikiki Kaimuki Shopping Center, 3221 Waialae Ave, Kaimuki Macy's, 2314 Kalakaua Ave, Waikiki Kilohana Square, 1016 Kapahulu Ave, Kapahulu	0 0 0 203 31 33	61 99 106 0 0		
August	Hawaii Kai Towne Center, 333 Keahole St, Hawaii Kai Waikiki Shopping Plaza, 2250 Kalakaua Ave, Waikiki Waikiki Businness Plaza, 2270 Kalakaua Ave, Waikiki Macy's, 2314 Kalakaua Ave, Waikiki Kaimuki Shopping Center, 3221 Waialae Ave, Kaimuki Waialae Square, 4210 Waialae Ave, Kahala Kahala Comm Center, 4224 Waialae Ave, Kahala	0 0 42 0 0 3 23	1 1 77 10 182 0		
September	Koko Marina Center, 7192 Kalanianaole Hwy, Hawaii Kai Waialae Square, 4210 Waialae Ave, Kahala Kahala Comm Center, 4224 Waialae Ave, Kahala International Market Place 2330 Kalakaua Ave, Waikiki Waikiki Businness Plaza, 2270 Kalakaua Ave, Waikiki Moanalua Shopping Center, Valkenburgh St, Moanalua Liliha Business Center, 1616 Liliha St, Nuuanu Waikiki Shell, 2805 Monsarrat Ave, Waikiki Waikiki Aquarium, 2777 Kalakaua Ave, Waikiki Kaimuki Shopping Center, 3221 Waialae Ave, Kaimuki Diamond Head Shopping Center, 3045 Monsarrat Ave, Waikiki	0 0 0 0 0 67 56 22 10 0	12 3 23 19 67 20 37 6 10 3 8		
Quarter 3 Total Total		504 5,101	745 4,423		

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SPECTRUM (CHARTER) 9-1-1 VOIP DATABASE VERIFICATION PROJECT - SEPTEMBER 2019

Akimeka received the Automatic Location Identification (ALI) records from Spectrum (formally known as Charter Communications) which is the predominant Voice over Internet Protocol (VoIP) provider in the State of Hawaii. As Akimeka has access to these ALI Records, Akimeka is researching and verifying the VoIP records against an MSAG valid address and the GIS data. This research is a validation of the ALI Record to ensure that the location as provided by the VoIP provider matches the GIS Information utilized by the Public Safety Agencies within their specific County 9-1-1 Service Area. This validation reduces the potential of address or location dispute during a 9-1-1 call.

The analysis of the database records indicates that there are invalid MSAG addresses utilized by the VoIP Provider. These records are being identified, and will be sent back to Spectrum for corrective action.

*Spectrum (Charter) 9-1-1 VoIP Database Verification Project					
	9-1-1 VOIP I	Database veri	ncation P	roject	
	TOTAL	TOTAL RECORDS	TOTAL	NON	PERCENT
	RECORDS	MATCHING &	RECORDS	MATCHING	COMPLETED
PSAP	SUBMITTED BY	VERIFIED WITH	NOT	RECORDS	
ISAI	SPECTRUM	911 DATABASES	MATCHING	CORRECTED	
	(A)	(B)		BY AKIMEKA	
				(C)	
HAWAII County	22,044	21,638 (98%)	406	406	100.00%
KAUAI County	8,936	8,695 (97%)	241	241	100.00%
MAUI County	18,256	17,517 (96%)	739	739	100.00%
OAHU Cilivian	87,414	85,329 (98%)	2,085	2,085	100.00%
OAHU Military	3,663	710 (19%)	2,953	2,953	100.00%
TOTAL	140,313	**133,889	6,424	6,424	100.00%

^{*} Spectrum VoIP Database received on June 21st, 2017

^{**} Akimeka provided VoIP Records with Latitude/Longitude coordinates

(A)	VoIP Database records submitted by Spectrum to Akimeka for research and MSAG address validation.
	Akimeka has researched and verified the VoIP record against an MSAG valid address and GIS data. Akimeka is tracking corrections needed to be performed by Spectrum. Addressing data will be updated or added in the GIS if the VoIP record is determined to be valid.
(C)	Verifcation Process Completed.

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BANDWIDTH 9-1-1 VOIP DATABASE VERIFICATION PROJECT - SEPTEMBER 2019

Akimeka received the Automatic Location Identification (ALI) records from Bandwidth which is a Voice over Internet Protocol (VoIP) provider in the State of Hawaii. As Akimeka has access to these ALI Records, Akimeka researched and verified the VoIP records against an MSAG valid address and the GIS data. This research is a validation of the ALI Record to ensure that the location as provided by the VoIP provider matches the GIS Information utilized by the Public Safety Agencies within their specific County 9-1-1 Service Area. This validation reduces the potential of address or location dispute during a 9-1-1 call.

The analysis of the database records indicates that there were invalid MSAG addresses utilized by the VoIP Provider. These records were identified, and sent back to Bandwidth for corrective action.

Akimeka will update the chart below as we receive updated ALI records from Bandwidth.

*Bandwidth							
9-1-1	9-1-1 VoIP Database Verification Project **(Updated)						
	TOTAL	TOTAL NEW	TOTAL	NON	PERCENT		
	RECORDS	RECORDS	RECORDS	MATCHING	COMPLETED		
PSAP	SUBMITTED BY	VERIFIED WITH	NOT	RECORDS			
FSAF	BANDWIDTH	911 DATABASES	MATCHING	CORRECTED			
	(A)	(B)		BY AKIMEKA			
				(C)			
HAWAII County	545	85	0	0	100.00%		
KAUAI County	306	41	0	0	100.00%		
MAUI County	914	222	1	1	100.00%		
OAHU Cilivian	4,065	888	1	1	100.00%		
OAHU Military	56	7	0	0	100.00%		
TOTAL	5,886	1,243	2	2	100.00%		

^{*}Bandwidth VoIP Database received on April 5th, 2018

(A)	VoIP Database records submitted by Bandwidth to Akimeka for research and MSAG address validation.
	Akimeka has researched and verified the VoIP record against an MSAG valid address and GIS data. Akimeka is tracking corrections needed to be performed by Bandwidth. Addressing data will be updated or added in the GIS if the VoIP record is determined to be valid.
(C)	Verifcation Process Completed.

^{**}Updated Bandwidth VoIP Database received on September 6th, 2018

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3. GEOGRAPHIC INFORMATION SYSTEM (GIS) – SEPTEMBER 2019

MAPPING LAYERS UPDATED (PART I)

9-1-1 GIS layers provided by Akimeka to the PSAP are designed for use on E9-1-1 systems and NG9-1-1 systems.

	OAHU CIVILIAN PSAPS				
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks			
	CRITICAL 9-1	-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE			
		(Listed Alphabetically)			
		Delivered 9/27/2019			
		Corrected location name for one (1) record in Waimanalo			
		Corrected location name for four (4) records in Aiea			
		Corrected location name for eighteen (18) records in Kaneohe			
		Corrected spatial for one (1) record in Downtown			
		Corrected location name for one (1) record in Downtown			
		Corrected spatial, updated routingID for one (1) record in Wahiawa			
		Corrected location name for eight (8) records in Aliamanu			
		Added new address point for two (2) records in Punchbowl			
		Added location name, corrected spatial for two (2) records in Kailua			
		Corrected routingID for five (5) records in Wahiawa			
		Corrected spatial for six (6) records in Kalihi			
	9/13/19	Corrected routingID, corrected spatial for two (2) records in Wahiawa			
	То	Added routingID for four thousand, six hundred and fourteen (4614) records in Wahiawa			
	9/26/19	Corrected location name for five (5) records in Kailua			
Address Points		Added routingID, corrected spatial for two (2) records in Wahiawa			
Address Folits		Corrected location name for two (2) records in Punchbowl			
		Added building for sixteen (16) records in Waimanalo			
		Added location name, corrected spatial for four (4) records in Kalihi			
		Corrected spatial, added routingID for three (3) records in Wahiawa			
		Corrected location name for fifteen (15) records in Kalihi			
		Added building for two (2) records in Kaneohe			
		Corrected routingID for one (1) record in Laie			
		Added location name for one (1) record in Kailua			
		Corrected spatial for one (1) record in Wahiawa			
		Corrected spatial for one (1) record in Punchbowl			
		Corrected spatial for three (3) records in Kailua			
		Delivered 9/13/2019			
	9/1/19	Corrected routingID for twenty (20) records in Kahuku			
	То	Corrected routingID for forty (40) records in Wahiawa			
	9/12/19	Corrected routingID for eighty (80) records in Sunset			
		Added routingID for seven hundred and sixty-nine (769) records in Sunset			

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MAPPING LAYERS UPDATED (PART II)

9-1-1 GIS layers provided by Akimeka to the PSAP are designed for use on E9-1-1 systems and NG9-1-1 systems.

	OAHU CIVILIAN PSAPS				
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks			
	CRITICAL 9-1	-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE			
	0111101111	(Listed Alphabetically)			
		Correcting routingID one (1) record in Wahiawa			
		Added routingID, corrected spatial for three (3) records in Haleiwa			
		Added routingID for nine hundred and ninety-eight (998) records in Kahuku			
		Added routingID for six hundred and ninety-eight (698) records in Haleiwa			
		Added routingID for eight hundred and eighty-six (886) records in Mokuleia			
	9/1/19	Added routingID for five hundred and seventy-two (572) records in Laie			
Address Points	То	Corrected routingID for nine (9) records in Mokuleia			
	9/12/19	Added routingID for six hundred and twenty-three (623) records in Wahiawa			
		Corrected routingID for fifty-four (54) records in Haleiwa			
		Added routingID, corrected spatial for one (1) record in Sunset			
		Added routingID for nine hundred and ninety-two (992) records in Waialua			
		Corrected routingID for sixty-eight (68) records in Laie			
		Corrected routingID for thirty-six (36) records in Waialua			
Airports					
AMR Response Areas					
Bridges					
Building Footprints					
Bus Stops					
Churches					
Coastal Names					
Coastline					
Common Places					
Correctional Facilities					
Emergency Callboxes					
Emergency Operation					
Centers					
Emergency Shelters					
ESZ/ESN					
Fire Beats					
Fire Districts					
Fire Response Areas					
Fire Stations	9/13/19 To 9/26/19	Delivered 9/27/2019 Added new common place point for one (1) record in Kapolei			
	9/26/19	Added new common place point for one (1) record in Kapolei			



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MAPPING LAYERS UPDATED (PART III)

9-1-1 GIS layers provided by Akimeka to the PSAP are designed for use on E9-1-1 systems and NG9-1-1 systems.

	OAHU CIVILIAN PSAPS			
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks		
	CRITICAL 9-1	-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE		
		(Listed Alphabetically)		
Food & Beverage				
Gas Stations				
Gate Codes				
Government Buildings				
Harbors				
Helipads				
Hiking Trails				
Hospitals				
Hydrants				
Hyrdology Layers				
Incident Response Areas				
Lodging				
Major Roads				
Medic Beats				
Medic Districts				
Medic Response Areas				
Medic Stations				
Medical Facilities				
Milepost Markers				
Military Response Areas				
MSAG Communities				
Net Junctions				
Ocean Rescue Boundaries				
Ocean Safety				
Parcels				
Parks				
Parks Polygon				
		Delivered 9/27/2019		
Points of Interest	9/13/19	Added routingID for two hundred and twenty-one (221) records in Kaneohe		
	9/13/19 To	Corrected spatial for two (2) records in Kapolei		
	9/26/19	Added routingID for one (1) record in Bellows		
		Corrected spatial for one (1) record in Kailua		
		Added routingID for fifty-nine (59) records in Kailua		

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MAPPING LAYERS UPDATED (PART IV)

9-1-1 GIS layers provided by Akimeka to the PSAP are designed for use on E9-1-1 systems and NG9-1-1 systems.

OAHU CIVILIAN PSAPS				
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks		
	CRITICAL 9-1	-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE		
		(Listed Alphabetically)		
Police Beats				
Police Districts				
Police Response Areas				
Police Stations				
Post Offices				
Schools				
		Delivered 9/27/2019		
	9/13/19 To	Corrected spatial for one (1) record in Waipahu		
	9/26/19	Corrected range for two (2) records in Kapolei		
	3/20/13	Corrected range for one (1) record in Kailua		
		Delivered 9/13/2019		
		Split street segment, corrected spatial, modified MSAG community, corrected street name for one		
		(1) record in Makakilo		
		Corrected parity for six (6) records in Kalaeloa		
		Split segment for, corrected range for two (2) records in Kailua		
		Split segment for two (2) records in Moanalua V		
		Corrected elevation for five (5) records in Makakilo		
		Corrected parity for two (2) records in Kapolei		
		Split segment for, corrected range for six (6) records in Mililani		
Street Centerlines		Split segment for, corrected range for two (2) records in Kahala		
	9/1/19	Corrected elevation for one (1) record in Manoa		
	To 9/12/19	Split street segment, corrected spatial, modified MSAG community, corrected street name for one		
	3/12/13	(1) record in Makakilo		
		Corrected spatial, modified MSAG community, corrected street name, corrected range for one (1)		
		record in Makakilo		
		Split segment for, corrected range for four (4) records in Waipahu		
		Split segment for five (5) records in Kapolei		
		Split segment for one (1) record in Ewa Beach		
		Split segment for two (2) records in Kaimuki		
		Corrected spatial for two (2) records in Kalaeloa		
		Split segment for eight (8) records in Waipahu		
		New segment for one (1) record in Aiea		

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MAPPING LAYERS UPDATED (PART V)

9-1-1 GIS layers provided by Akimeka to the PSAP are designed for use on E9-1-1 systems and NG9-1-1 systems.

		OAHU CIVILIAN PSAPS
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks
	CRITICAL 9.1	-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE
	CMITCAL 7-1	(Listed Alphabetically)
		Corrected elevation for seven (7) records in Kapolei
		Split segment for, corrected range for two (2) records in Manoa
		Split segment for, corrected range for two (2) records in Punchbowl
		Split segment for, corrected range for six (6) records in McCully
		Corrected speed, corrected spatial, modified MSAG community for one (1) record in Makakilo
		Split segment for, corrected range for two (2) records in Nanakuli
		Split segment for, corrected range for four (4) records in Waimanalo
		Split segment for four (4) records in Pearl City
		Split segment for, corrected range for four (4) records in Maili
		Split segment for eight (8) records in Waipio
		Corrected parity for two (2) records in Aiea
		Split segment for, corrected range for four (4) records in Aiea
	0///0	Split segment for two (2) records in Aiea
Street Centerlines	9/1/19 To	Split segment for, corrected range for two (2) records in Ewa Beach
Street Centermies	9/12/19	Split segment for, corrected spatial for four (4) records in Kapolei
	0,1411	Split segment for four (4) records in Kailua
		Corrected spatial for one (1) record in Haleiwa
		Split segment for, corrected range for ten (10) records in Kaimuki
		Split segment for one (1) record in Airport
		Corrected parity for three (3) records in Waikiki
		Corrected speed, corrected spatial, modified MSAG community, crosses report_dists for one (1)
		record in Makakilo
		Corrected spatial, modified MSAG community, corrected street name for three (3) records in
		Makakilo
		Split segment for, corrected range for two (2) records in Kapolei
		Corrected spatial, modified MSAG community, corrected street name, crosses police for one (1)
		record in Makakilo
		Split segment for one (1) record in Kalihi
Subdivisions		
Tow Jurisdictions		
Tsunami Evacuation Zones		
Tsunami Heights		
Waste Water Plants		

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MAPPING LAYERS UPDATED (PART VI)

9-1-1 GIS layers provided by Akimeka to the PSAP are designed for use on E9-1-1 systems and NG9-1-1 systems.

	OAHU CIVILIAN PSAPS			
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks		
	CRITICAL 9-1	-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE		
		(Listed Alphabetically)		
	9/27/19 To	Next Delivery 10/11/1920		
	9/30/19	Added one (1) sector per AT&T CRS		
		Delivered 9/27/2019		
	9/13/19	Added six (6) sectors per AT&T CRS		
	То	Updated four (4) sectors per T-Mobile CRS		
	9/26/19	Added two (2) sectors per Sprint CRS		
WSP Cell Sectors		Updated fifteen (15) sectors per T-Mobile audit		
		Delivered 9/13/2019		
	9/1/19 To 9/12/19	Added fourteen (14) sectors per Verizon Wireless CRS		
		Added six (6) sectors per AT&T CRS		
		Added six (6) sectors per T-Mobile CRS		
		Updated eighteen (18) sectors per Verizon Wireless CRS		
		Updated tower per CRStwo (2) sectors per T-Mobile CRS		
	9/27/19 To	Next Delivery 10/11/1920		
	9/30/19	Updated one (1) tower per AT&T CRS		
		Delivered 9/27/2019		
	9/13/19	Added six (6) towers per AT&T CRS		
	То	Added one (1) tower per Sprint CRS		
	9/26/19	Updated four (4) towers per T-Mobile audit		
WSP Cell Towers		Updated one (1) tower per Sprint CRS		
wor cen rowers		Delivered 9/13/2019		
		Added one (1) tower per Verizon Wireless CRS		
	9/1/19	Added two (2) towers per T-Mobile CRS		
	То	Updated three (3) towers per Verizon Wireless CRS		
	9/12/19	Added one (1) tower per AT&T CRS		
		Updated three (3) towers per AT&T CRS		
		Updated one (1) tower per T-Mobile audit		

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GEOGRAPHIC INFORMATION SYSTEM (GIS) NARRATIVES

GIS KEY ACTIVITIES/UPDATES

• GIS Key activities include the events such as GIS deliverables, meetings, agreements, etc.

Date	Key Activities/Updates			
9/11/2019	Delivered draft Medic Response Areas, created using drive time polygons, to EMS.			
9/13/2019	Delivered Street Centerlines, Common Places, Police Beats, MSAG			
	Communities to HPD for Motorola CAD.			
9/13/2019	Delivered Street Centerlines, Address Points, Fire Response Areas, Medic			
	Response Areas, and Display Address Points to HFD, EMS, and Ocean Safety for			
	TriTech CAD.			
9/13/2019	Delivered Address Points, Common Places, Street Centerlines, Police Response			
	Areas, Fire Response Areas, Medic Response Areas, Ocean Safety Response			
	Areas, ESN, MSAG Communities, Cell Towers, Cell Sectors to the Honolulu			
	MapFlex system for HPD, HFD, EMS, and Ocean Safety.			
9/18/2019	Delivered draft ARFF Fire Response Boundary for the Honolulu Airport, to			
	Honolulu Fire Department.			
9/25/2019	Delivered updated Beat Book to HPD.			
9/25/2019	Delivered updated address points to TriTech/Central square. The update			
	included building and apartment information appended to location names			
	field.			
9/27/2019	Delivered Street Centerlines, Common Places, Police Beats, MSAG			
	Communities to HPD for Motorola CAD.			
9/27/2019	Delivered Street Centerlines, Address Points, Fire Response Areas, Medic			
	Response Areas, and Display Address Points to HFD, EMS, and Ocean Safety for			
	TriTech CAD.			
9/27/2019	Delivered Address Points, Common Places, Street Centerlines, Police Response			
	Areas, Fire Response Areas, Medic Response Areas, Ocean Safety Response			
	Areas, ESN, MSAG Communities, Cell Towers, Cell Sectors to the Honolulu			
	MapFlex system for HPD, HFD, EMS, and Ocean Safety.			

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HONOLULU POLICE DEPARTMENT TRITECH CAD PROJECT

On October 10, 2018, Akimeka participated along with the CAD project team of the Honolulu Police Department on a teleconference GIS kickoff meeting with the TriTech CAD Company. Items that were discussed were GIS requirements for the CAD and RMS systems.

On October 25, 2018, Akimeka's initial delivery of 11 GIS layers to the TriTech FTP site included: Address Points, Airports, Coastline, Fire Response Areas, Medic Response Areas, MSAG Communities, Parks, Police Beats, State Boundary, Streams, and Street Centerlines.

Two spreadsheets describing the layers were also provided on the FPT site.

MAPFLEX SYSTEM

Akimeka delivered GIS data to the MapFlex system on the following dates in September 2019

Hawaii County – September 10th, 2019 and September 24th, 2019 **Maui County** – September 11th, 2019 and September 25th, 2019 **Kauai County** – September 12th, 2019, and September 26th, 2019 **Honolulu** – September 13th, 2019, and September 27th, 2019

MAPFLEX ISSUES

Below is a detailed list of issues regarding the MapFlex systems throughout the State of Hawaii.

DATE	ISSUE	DESCRIPTION	STATUS
8/2016	Wireless Addresses	MapFlex system began displaying wireless information	Partially Resolved (Nov 2016)
		incorrectly. MapFlex system is doing a reverse query for	The overriding ALI with
		additional information in the GIS and this is overriding the	updated Lat/Longs from the
		ALI information with the closest address in the GIS.	GIS is still occurring
11/2016	Phase I Display	Wireless Phase I calls plotting at centroid of coverage area	Partially Resolved (Dec 2016)
		and landing in the ocean. After installation of new MapFlex	According to PSAPs, it's not
		version to correct other issues, the configurations for	fully resolved. The icon of the
		Wireless Phase I were not set up properly by Intrado, in	tower still doesn't plot for
		which the mapping did not point to the correct information	Phase I.
		in MapFlex.	
11/2016	Wireless	Sprint calls coming across with unusually high confidence.	Pending
	Confidence	Coordination is taking place with Sprint and Intrado. Intrado	
		provides the PDE services for Sprint.	

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3/22/2017	ArcGIS Address	The locators in MapFlex have a configurations which does	Pending
	Locator	not include ESNs. A reported issue has occurred with the	A new SP 5.4 update by Intrado
		Sheraton in Waikiki. The address locator does not	is aimed to correct this issue.
		differentiate between the Sheraton hotel and the surf break	
		and plots on the surf break. The bigger issue is that this same	
		issue will occur with complexes that have same primary	
		address.	
5/17/2017	VoIP Calls Plotting	Recognized in late April and early May 2017, the PSAPs	Partially Resolved – the
	Incorrectly	have been receiving several VoIP calls which are plotting in	Lat/Longs are no longer being
		the incorrect locations. After further research it was	plotted in MapFlex due to a
		determined that it is because MapFlex is configured to plot	software release.
		the received Lat/Long. The problem is that these are not	
		always maintained properly and that ideally the system	
		should first choose to match with the GIS data based on the	
		provided address.	
		During the September 20, 2017 PSAP conference call, HT	
		relayed there was confirmation that the Time Warner	
		records were in fact passing through the Intrado FMCC.	
5/17/2017	Landline Calls	It was determined that for normal landline calls, the X/Y	Intrado is looking into this
	Producing X/Y on	coordinates are being sent. The PSAPs have asked where	(May - June 2017)
	calls	these are being generated and why would they be sent for	
		landline calls.	
5/23/2018	Phase I & Phase II	Phase I calls received at the Kihei Maui PSAP are displaying	Pending
	coverage area	a circular circumference area rather than a cone shaped	
		directional coverage. Phase II calls are not plotting the COF	
7 /2 / /2 O / O	7	meters correctly.	7 1
5/24/2018	Incorrect Addresses	MapFlex system began displaying incorrect addresses in the	Pending
		bubble display when an Address Point is right mouse clicked	
		to see information by the PSAPs. However, the address in	
C/07/2010)	the data is still correct as shown on the left hand side.	D. II
6/27/2018	Moving Labels	It was brought up during the PSAP teleconference with	Pending
		Hawaiian Tel and Intrado that the Hawaii Fire Department	
		submitted a trouble ticket regarding the parcel labels. When	
		the base map is checked on for viewing the owner's names	
		on the parcel layer, the names of some of the parcels will	
		follow and leave their parcel as the map is panned following	
		streets. This problem was also recreated at the Hawaii	
		Police Department.	

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STREET UTILITY CHECK

This is an ongoing project to correct the errors identified. A comparison of the raw CAD generated report from the Street Check Utility was performed between the Street Centerline GIS data on April 1, 2019 and April 30, 2019. There were no updates received for September, 2019.

Street Utility Check									
	First Report 06/01/13	3/31/2019	4/30/2019	Improvements/Corrections					
Total Number of GIS Records	26,602	31,286	31,313	Increased by 27 records					
Errors Identified									
Zero Errors	5,112	1	4	Increased by 3 records					
Low > High Errors	3	0	1	Increased by 1 record					
Mixed Parity Errors	1	0	0	No change					
Changed Parity Errors	105	1	2	Increased by 1 record					
Address Gap Errors	2,629	25	7	Decreased by 18 records					
Address Overlap Errors	423	26	9	Decreased by 17 records					
Flipped Link Errors	1,030	368	20	Decreased by 348 records					
Total Errors	9,303	421	43	Decreased by 378 records					

In addition to Akimeka's internal validation tools, Akimeka will continue to utilize the various CAD reports to further identify and correct the multitude of discrepancies in the GIS data. This is an ongoing and routine process which Akimeka has been using to improve the accuracy of the GIS data for Public Safety.

As a result of the GIS efforts within the military jurisdictional areas covered primarily by the RDC, the GIS data is undergoing several changes within the bases which will cause a fluctuation in the Street Check results, which is to be expected. Any discrepancies that are identified will be corrected in the following GIS deliverable.

TRITECH CAD ADDRESS POINT PROJECT

During the month of February 2018 after several months of discussion and testing, the Address Points were loaded into TriTech and moved into the HFD/EMS shared CAD. Since that time, HFD, EMS, and Akimeka have been working closely together to identify and update subaddress location for various complexes around Oahu. Several hundred new address points have been added to the GIS as a result of this collaboration.

During the month of March 2018, there were only a couple minor updates communicated and one issue identified with addresses within close proximity to the H1 freeway.

1. Akimeka ran an analysis and added routing information into more than 27,000 Address Points to resolve the geotolerance within TriTech.

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- 2. During the month of April 2018, it was identified that the issue related to the H1 Fwy still remain and after investigation it was determined that a component within the SQL server for TriTech requires a potential update to allow for routing to be overridden based off of the Routing ID information.
 - a. A trouble ticket has been opened with TriTech who is further investigating the potential correction, outside of the GIS data.
- 3. During the month of February 2019, HFD has requested assistance with labelling the mobile map.
 - a. Akimeka worked with HFD to develop a labeling scheme that showed complex names, addresses, and apartment numbers, without label duplication. The labeling scheme requires three additional shapefiles, which will be provided to HFD as part of every deliverable.

SPEED LIMIT UPDATES

Beginning in April 2017, and now that the Street Centerline data has achieved not only an above 98% synchronization rating but also a high degree of accuracy in the spatial accuracy, a new project to correct speed limits has begun. The project is beginning in Waimanalo and continuing in a counter-clockwise patter around the island of Oahu. The initial focus is on Highways, Freeways, and other major roads, but also not limited to additional corrections, especially those which are immediately identified to positively impact vehicle routing, etc.

All updates are shared directly with the PSAPs and the agency most affected (positively) is HFD since they actively use vehicle routing and this will assist in better CAD unit recommendations. During each GIS deliverable, a list of updates are being provided.

- 1. During the 2017 year, from April 2017 to December 2017, more than 4,200 street segments were updated to reflect posted speed limit restrictions from Waimanalo to Nanakuli.
- 2. During January 2018, 1,187 segments were updated in Maili, Nanakuli, and Kapolei.
- 3. Throughout the month of February 2018, 2,025 speed limits were updated in Ewa Beach, Makakilo, and Iroquois.
- 4. During March 2018, 3,743 street segments were updated across Makakilo, Kunia, Iroquois, Pearl Harbor, Waipahu, Wahiawa, Waialua, and Mililani.
- 5. During the month of April 2018, Akimeka held on the speed limit updates until HFD has had a chance to test out the TriTech and to ensure the routing is correct (see TriTech Address Points Project narrative above for further information on routing items).
- 6. During the month of May 2018, Akimeka continued the hold on the speed limit updates until HFD has had a chance to test out the TriTech and to ensure routing is correct (see TriTech Address Points Project narrative above for further information on routing items).
- 7. During the month of June 2018, Akimeka continued the hold on the speed limit updates until HFD has had a chance to test out the TriTech and to ensure routing is correct (see TriTech Address Points Project narrative above for further information on routing items).
- 8. During the month of July 2018, Akimeka continued the hold on the speed limit updates until HFD has had a chance to test out the TriTech and to ensure routing is correct (refer to TriTech Address Points Project narrative above for further information on routing items).
- 9. During the month of August 2018, Akimeka continued the hold on the speed limit updates until HFD has had a chance to test out the TriTech and to ensure routing is correct (refer to TriTech Address Points Project narrative above for further information on routing items).
- 10. During the month of September 2018, Akimeka resumed the speed limit updates. 1,081 street segments were updated across Waipio and Pearl City.

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- 11. During the month of October 2018, Akimeka continued the speed limit updates. 1,094 street segments were updated across Aiea, McGrew Point (McGrew Pt) and Pearl City Peninsula (PC PEN).
- 12. During the month of November 2018, Akimeka continued the speed limit updates. 265 street segments were updated across Halawa and Moanalua Valley.
- 13. During the month of December 2018, Akimeka continued the speed limit updates. 1,978 street segments were updated across Hale Moku, Hokulani, Salt Lake, Mapunapuna, Radford Terrace, Halsey Terrace, Miller Park, Catlin Park, and Kalihi.
- 14. During the month of January 2019, Akimeka continued the speed limit updates. 1,843 street segments were updated across Airport, Nuuanu, Downtown, Punchbowl, Makiki, Kakaako, Honolulu, and Ala Moana.
- 15. During the month of February 2019, Akimeka continued the speed limit updates. 956 street segments were updated across Manoa and McCully.
- 16. During the month of March 2019, Akimeka continued the speed limit updates. 518 street segments were updated across Waikiki, Fort DeRussy, and Kapahulu.
- 17. During the month of April 2019, Akimeka completed the speed limit updates. 2467 street segments were updated across Kaimuki, Kahala, Waialae, Aina Haina and Hawaii Kai.
- 18. During the month of May 2019, Akimeka updated speed limits on State highways. 453 segments were updated across Aiea, Airport, Downtown, Ewa Beach, Kalihi, Kapolei, Kunia, Nuuanu, Pearl City, Punchbowl, Waipahu and Waipio.
- 19. During the month of June 2019, no speed limit update requests were received. As of June 2019, the speed limit updates has been completed for all city streets that were previously 30 MPH, State streets that were previously 50 MPH, and other major roadways. If any requests for update are received in the future, Akimeka will update the speed limit(s).
- 20. No updates received in September 2019.

ROUTING ID UPDATES

Beginning in July 2019, all Address Points and Points of Interests will be assigned a Routing ID to ensure that routing to these addresses are correct. The project is beginning in Waimanalo and continuing in a counter-clockwise pattern around the island of Oahu.

All updates are shared directly with the PSAPs and the agency most affected (positively) is HFD since they actively use vehicle routing and this will assist in better CAD unit recommendations. During each GIS deliverable, a list of updates are being provided.

- 1. During the month of July, Routing IDs were assigned to seven thousand three hundred twenty eight (7328) Address Points and sixty eight (68) Points of Interests.
- 2. During the month of August, Routing IDs were assigned to eighteen thousand eight hundred ninety one (18,891) Address Points and one thousand two hundred twenty eight (1,228) Points of Interests across Aiea, Kaaawa, Kahaluu, Kailua, Kaneohe, MCBH and Waimanalo.
- 3. During the month of September, Routing IDs were assigned to fourteen thousand three hundred twenty seven (14,327) Address Points and seven hundred ninety (790) Points of Interest across Haleiwa, Kahuku, Laie, Wahiawa, Schofield, Wailua and Sunset.

September 1, 2019 - September 30, 2019

HONOLULU EMS RESPONSE AREA

During the month of December 2017, EMS requested a high resolution map of the Honolulu Response Area which will likely be divided into 5 separate response areas to better support the EMS operations and ambulance response times.

- 1. With HPD's approval, Akimeka prepared a map of the requested area and provided to EMS on December 12, 2017.
- 2. Considering the additional response areas will certainly require the creation of additional ESZ/ESNs; HPD, EMS, and Akimeka will be coordinating so that the project can be mapped out on a timeline so that the changes can take place while maintaining an above 99% synchronization level between GIS, MSAG, and ALI.
- 3. An operational consideration has already begun a discussion, in that the military ESNs will likely be reallocated to a new numbering so that both civilian and military responses will have enough ESNs to support their individual operations.
- 4. During the first half of 2018, there will be further discussion on the creation of the new Response Areas, allocation of military ESNs, and create of new ESZs/ESNs.

AMR-H

The American Medical Response Hawaii (AMR-H) Project is a joint venture by the Honolulu Emergency Services Department (HESD) to provide accurate address and location information to its other public safety agencies. This project is to ensure AMR-H is utilizing the same address and location information as the other HESD public safety agencies, and to ensure compliance with National 9-1-1 directives such as the FCC Docket 15-9 regarding location accuracy. The intent is to provide the same accurate location information to all the HESD public safety response agencies to help reduce response times to the 9-1-1 caller.

NOTE:

This work is performed under a separate contract.

This contract has lapsed and will be removed from this report pending further developments.

September 1, 2019 - September 30, 2019

AMERICAN MEDICAL RESPONSE (AMR) HAWAII PROJECT

Since the start of the GIS deliverable schedule with AMR, there have been no reported issues or concerns. In order to open up discussion on any operational improvements via the GIS data, or to identify any updates that can be made, AMR and Akimeka held a brief conference call on December 5, 2017.

- 1. During the discussion there was overwhelming agreement that the data provided by Akimeka is working great for the dispatchers and first responders at AMR.
- 2. There were some areas that were discussed where searching for certain addresses will prompt a list of invalid addresses.
 - a. Through the discussion it was identified that the CAD system is aggregating various data sources since they are dispatching throughout the State. The data that Akimeka provides for the island of Oahu is working great, however since the neighbor islands are using various sources of data in different formats, the accuracy of that data is greatly in question and is likely not fully supportive of the search requirements in the CAD.
- 3. A final topic of discussion was on training for the AMR dispatcher. Joe from AMR who was on the call, took this as an action item to prepare training material for searching criteria, especially intersections. Akimeka volunteered that they can make themselves available to collaborate on the training material if needed.
- 4. There are no follow up calls scheduled at this time, however Akimeka informed that any issues or improvements identified will be looked at immediately and to send the requests as they are identified.

September 1, 2019 - September 30, 2019

4. E9-1-1 OAHU CIVILIAN DATABASE SYNCHRONIZATION

(<u>Reference:</u> NENA 71-501, Version 1.1 – NENA Information Document for Synchronizing Geographic Information System databases with MSAG & ALI)

Next Database Synchronization Report - October 2019

AUDIT SUMMARY RESULTS - 2018 - 2019 -- TBA

AUDIT SUMMARY RESULTS - OCTOBER 1, 2019 MSAG VS JULY 1, 2019 MSAG -- TBA

AUDIT SUMMARY RESULTS - OCTOBER 1, 2019 MSAG VS JULY 1, 2019 MSAG CONTINUED

INVALID MSAG STREETS AND ADDRESS RANGES - ESN X99 RECORDS -- TBA

AUTOMATIC LOCATION IDENTIFICATION (ALI) DATABASE DISCREPANCIES -- TBA

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